

LIS008535383B2

(12) United States Patent

Aram et al.

(10) Patent No.: US 8,535,383 B2

(45) **Date of Patent: Sep. 17, 2013**

(54) SYSTEMS AND METHODS FOR COMPARTMENTAL REPLACEMENT IN A KNEE

(75) Inventors: Luke Aram, Warsaw, IN (US); Dan

Auger, Fort Wayne, IN (US); Adam Hayden, Fort Wayne, IN (US); Jordan

Lee, Warsaw, IN (US)

(73) Assignee: DePuy Synthes Products, LLC,

Raynham, MA (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 1696 days.

(21) Appl. No.: 11/171,180

(22) Filed: Jun. 30, 2005

(65) Prior Publication Data

US 2006/0058884 A1 Mar. 16, 2006

Related U.S. Application Data

- (63) Continuation-in-part of application No. 11/033,614, filed on Jan. 12, 2005, now Pat. No. 7,258,701.
- (60) Provisional application No. 60/535,967, filed on Jan. 12, 2004.
- (51) Int. Cl. A61F 2/38 (2006.01)

(56) References Cited

U.S. PATENT DOCUMENTS

3,798,679 A	3/1974	Ewald
3,816,855 A	6/1974	Saleh
3,852,830 A	12/1974	Marmor
3,949,428 A	4/1976	Cavendish et al.
3,953,899 A	5/1976	Charnley
4,001,896 A	1/1977	Arkangel
4,034,418 A	7/1977	Jackson et al.
4,151,615 A	5/1979	Hall
4,178,641 A	12/1979	Grundei et al.
4,207,627 A	6/1980	Cloutier
4,209,861 A	7/1980	Walker et al.
4,216,549 A	8/1980	Hillberry et al.

(Continued)

FOREIGN PATENT DOCUMENTS

DE 29 01 009 7/1980 DE 33 05 237 A1 8/1983

(Continued)

OTHER PUBLICATIONS

Richards, KA-012255, Richards Mod II Knee, 1976 (56 pages).

(Continued)

Primary Examiner — Bruce E Snow (74) Attorney, Agent, or Firm — Maginot, Moore & Beck LLP

(57) ABSTRACT

A kit for a prosthesis system includes a plurality of first components, each of the plurality of first components for replacing one of a plurality of first surface portions of a bone, a second component for replacing a second surface portion of the bone and a resilient connector for connecting at least one of the plurality of first components to the second component. In accordance with one method, components from a prosthesis system kit used to replace adjacent portions of a bone surface are assembled ex vivo.

9 Claims, 31 Drawing Sheets

